



Storm Signals Data Collection

Date: _____

Time: _____

Initial: _____

Directions: The following questions will help you analyze the data to determine the answer to the big question, "Have signals been recorded today due to a flare or CME that could affect Earth?" You can answer each of the questions on the back of this paper or on a separate Storm Signals Answer Sheet.

Refer to the "University of Florida" Data

- a) Were solar flares or coronal mass ejections detected today?
- b) Did the intensity of radio waves from the Sun change since your last entry? If so, explain.
- c) Draw an example of what your red line looks like in the box below.

- d) Do you think you are observing a solar storm using this data? Why or why not?

Refer to "GOES 5-min X-ray Plot" Data

- e) Did the intensity of x-ray emissions from the sun increase over the last few days?
 - i) If yes, record the dates and levels (A, B, C, M or X)
- f) When can we expect to see the visible sign (aurora) of the solar storm on Earth?

Comprehension Question:

Based on the data you have analyzed from these instruments, answer the question, "Has signals been recorded today indicating that a solar storm might be headed towards Earth?" Be sure to cite specific data in your response.